

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Complete If Known	
				Application Number	
				Filing Date	
				First Named Inventor	Hezar et al.
				Group Art Unit	
Examiner Name					
Sheet	1	of	1	Attorney Docket No.	TI-36192

U.S. PATENT DOCUMENTS						
Exam. Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
✓	AA	5,065,157		Ribner et al.	11/12/1991	Entire Document
	AB	5,103,229		Ribner	04/07/1992	Entire Document
	AC	5,181,032		Ribner	01/19/1993	Entire Document
		5,283,578		Ribner et al.	02/01/1994	Entire Document
	AD	5,305,004		Fattaruso	04/19/1994	Entire Document
		5,500,645		Ribner et al.	03/19/1996	Entire Document
		5,952,947		Nussbaum et al.	09/14/1999	Entire Document
		6,148,048		Kerth et al.	11/14/2000	Entire Document
✓	AF	6,611,221	B1	Soundarapandian et al.	08/26/2003	Entire Document
		6,642,874	B1	Lin et al.	11/04/2003	Entire Document

Exam. Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
✓	CA	"A Direct Digital Synthesizer with a tunable Error Feedback Structure", JOUKO JANKKA, IEEE Transactions on Communications, Vol. 45, No. 4, April, 1997, pp. 416-420.	
	CB	"A Noise-Shaping Coder Topology for 15+ Bit Converters", L. RICHARD CARLEY, IEEE Journal of Solid-State Circuits, Vol. 24, No. 2, April, 1989, pp. 267-273.	
	CC	"Multibit $\Sigma$ - $\Delta$ A/D Converter Incorporating A Novel Class of Dynamic Element Matching Techniques", BOSCO H. LEUNG and SCHAT SUTARJA, IEEE Transactions on Circuits and Systems, Analog and Digital Signal Processing, Vol. 39, No. 1, January, 1992, pp. 35-51.	
	CD	"A 1.5V 2.4/2.9mW 79/50dB DR Sigma Delta Modulator for GSM/WCDMA in a 0.13um Digital Process", G. GOMEZ and B. HAROUN, Solid State Circuits Conference, Digest of Technical Papers, Vol. 1, pp. 306-307, February 2002 San Francisco, CA, and Visuals Supplement, pp. 242, 243, 490.	
	CE	Institute of Electrical and Electronics Engineers, 2002 Digest of Technical Papers and Visuals Supplement 2002 to the Digest of Technical Papers, IEEE International Solid-State Circuits conference, Volume Forty-Five, ISSN 0193-6530, 13.3 "A Dual-Mode 80MHz Bandpass $\Delta\Sigma$ Modulator for a GSM/WCDMA IF-Receiver" T. SALO, T. HOLLMAN, S. LINGFORS and K. HALONEN, 7 pgs.	
✓	CF	"Behavioral Modeling of Seitched-Capacitor Sigma-Delta Modulators", PIERO MALCOVATI, SIMONA BRIGATI, FABRIZIO FRANCESCONI, FRANCO MALOBERTI, PAOLO CUSIANATO and ANDREA BASCHIROTTI, IEEE Transactions on Circuits and Systems; Fundamental Theory and Applications, Vol. 50, No. 3, March, 2003, pp. 352-364.	

Examiner Signature		Date Considered	4/1/04
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US and Foreign Patent Documents: <sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Other Prior Art/Non-Patent Literature Documents: <sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English Translation is attached.

Burdan Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231